

Powerlink™ Measurement and Verification Lighting Panelboard (MVP)

The Powerlink™ Measurement and Verification Lighting Panelboard (MVP) incorporates the same features found in the Powerlink G3 3000 level system, in addition to integral branch circuit and optional main metering for energy monitoring and verification of the lighting system. Integral metering is accomplished using the PowerLogic™ Branch Circuit Power Meter (BCPM), which is a highly accurate, full-featured multi-branch circuit power meter that provides unrivalled low-current monitoring.

The Powerlink G3 system reduces electrical energy consumption associated with lighting and other loads by automatically switching loads off during non-occupied periods. The Powerlink G3 system is often ideal for reducing the peak demand by switching unnecessary lights off in response to an automated response signal or when high time-of-day energy tariffs occur.

> Features

- Integral individual and optional mains metering to provide utmost flexibility in assuring a sustainable metering and verification program
- Monitors current, voltage, energy consumption, demand, and power factor for complete energy profiling
- Accumulated metering information transmitted via Modbus communications interface
- Optional EGX web interface for storing and reporting data via standard web browser (suggested for applications without Energy Management System [EMS] software)
- Alarm indication when parameters approach user-configured thresholds
- 16 hard-wired inputs available for connection to devices with physical dry-contacts
- 64 communication inputs available for network connection
- 16 independent time schedules, each can be configured into 24 distinct periods
- 7-day repeating clock with changeable automatic daylight savings time
- Automatic sunrise/sunset tracking with offsets
- 32 special event periods
- 32 remote sources for sharing input status, time schedules, or zone status between controllers
- Full custom logic capabilities, including full Boolean functions and synchronization services
- RS232 and RS485
- Serial communications using Modbus ASCII/RTU, BACnet MS/TP and DMX512 protocols (metering Modbus only)
- Ethernet 10BaseT communications using Modbus TCP and BACnet/IP protocols



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> Specifications

Powerlink 3000G3 Controller

Characteristics	
Operating Temp.	-5° to 40°C (23° to 104°F) (95%RH, non-condensing)
Storage Temp.	-20° to 85°C (-4° to 185°F) (<95%RH, non-condensing)
Regulatory/Standards Compliance	
<ul style="list-style-type: none"> UL Listed 916, Energy Management Equip FCC Part 15, Class A NEC Class1 and Class 2 Control Circuits ESD Immunity: IEC 1000, level 4 RF Susceptibility: IEC 1000, level 3 	<ul style="list-style-type: none"> Electrical Fast Transient Susceptibility: IEC 1000, level 3 Electrical Surge Susceptibility: IEC 1000, level 4 (power line) Electrical Fast Transient Susceptibility: IEC 1000, level 3 (interconnection lines)

EGX300 Specifications (Optional*)

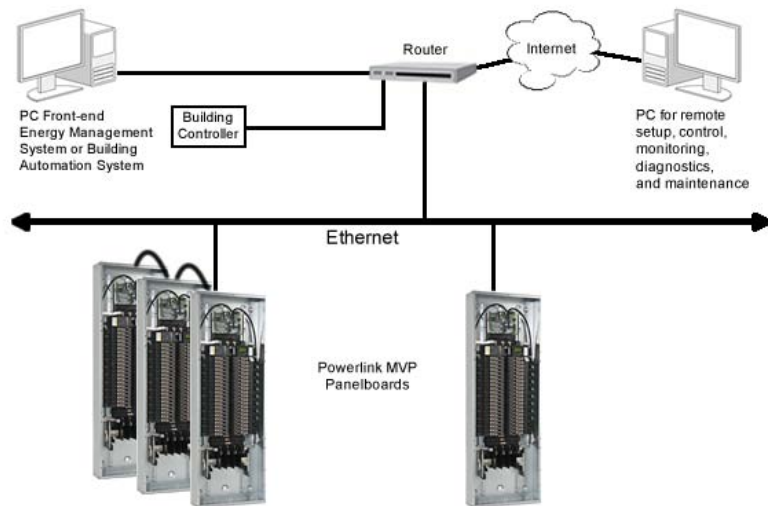
Communications	
Serial Port	Protocol: Modbus RTU/ASCII, JBus, PowerLogic (Sy/Max)
Ethernet Port	Protocol: HTTP, SNMP, FTP, Modbus TCP/IP
Web Server	Simultaneous connections: 64
Regulatory/Standards Compliance	
International (CB Scheme)	IEC 60950
USA	UL508/UL60950
Characteristics	
Power-over-Ethernet (PoE)	Class 3
Power supply	24 Vdc if not using PoE
Maximum burden	4 watts
Operating temperature	-13° F to +158° F (-25° C to +70° C)
Humidity rating	5% to 95% relative humidity (without condensation) at +131° F (+55° C)

* Recommended for application where EMS software monitoring is not provided

BCPM Specifications

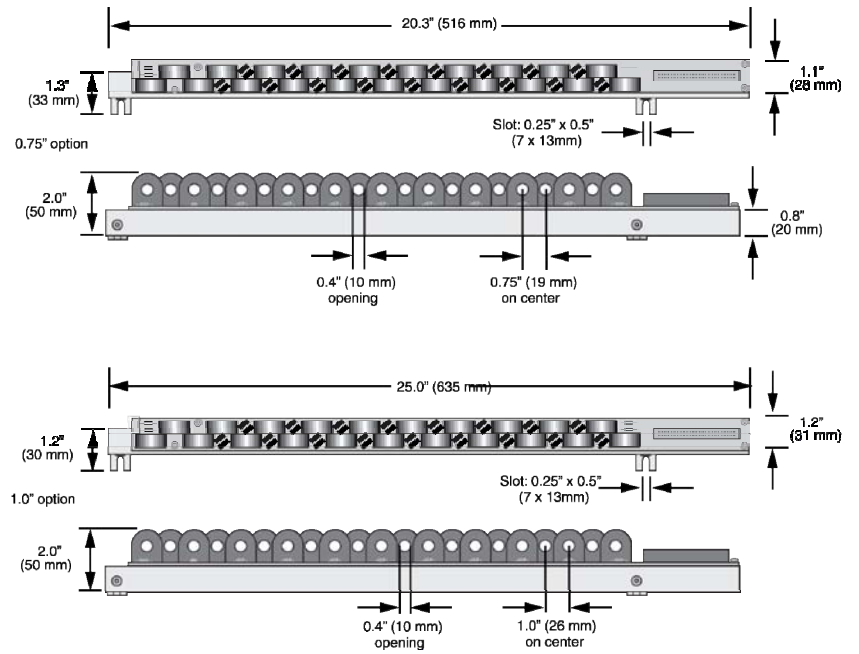
General	
Control Power	90-277 Vac
Frequency	50/60 Hz
Sampling Frequency	2560 Hz
Update Rate	1.6 seconds per panel board
Overload Capability	10 kAIC
Operating Temp.	0° to 60°C (32° to 122°F) (<95%RH, non-condensing)
Storage Temp.	-40° to 70°C (-40° to 158°F)
Accuracy	
Current Monitoring	0.25 A to 100 A: 3% of reading from 0.25 A to 2 A; 2% of reading from 2 A to 100 A
Auxiliary Inputs	2% of reading from 1% to 10% of rated current; 1% of reading from 10% to 100% of rated current (0 to 0.333 Vac)
Voltage Input	90-277 Vac; 1% of reading from 90-277 L-N (models BCPMA and BCPMB only)
Power	4% of reading from 0.25 A to 2 A; 3% of reading 2 A to 100 A* (models BCPMA and BCPMB only)
Network Communications	
Serial	Modbus™ RTU
Ethernet	TCP/IP

> Networking

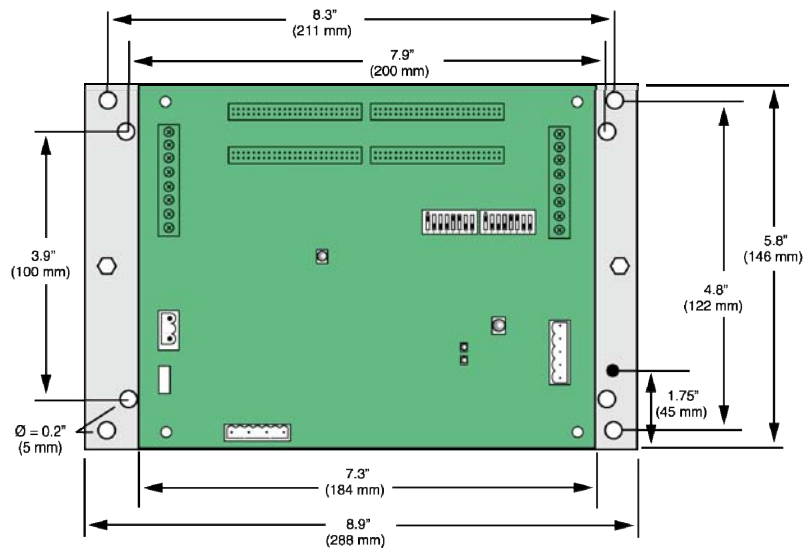


> Dimensions

Current Sensor Strips



Circuit Board with Mounting Bracket



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